

## NOTICE AND NECESSARY INFORMATION (NANI)

This form is to assist compliance with the bulk sewage (biosolids) notification requirements [503.12(f)]. Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type:: NWWRP Compliance

Monitoring Period: 5/1/18 To: 6/30/18

Name	Concentration (mg/Kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) Monthly Average	Ceiling Concentrations* (Table 1, 40 CFR 503.13) Daily Maximum
Arsenic	22.9	41	75
Cadmium	< 3.60	39	85
Chromium	61.1	N/A**	3000
Copper	513	1500	4300
Lead	8.49	300	840
Mercury	0.988	17	57
Molybdenum	16.1	N/A**	75
Nickel	27.8	420	420
Nitrogen Concen	54200	N/A**	N/A**
Selenium	< 18.0	100	100
Zinc	841	2800	7500

\* Biosolids may not be land applied if any pollutant exceeds these values.

\*\* EPA has temporarily removed molybdenum limits from Table 3, Table 2 and Table

B. Pathogen Reduction (40CFR 503.32) -- Please indicate the level achieved


☐ Class A ☒ Class B

C. Vector Attraction Reduction (40CFR 503.33) -- Please indicate the option perform

☒ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4  
☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8  
☐ No vector attraction reduction options were performed

D. Certification

I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in §503.32(b) and the vector attraction reduction requirement in §503.33(b)(1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title Jennifer Hetherington, Wastewater Compliance Specialist	B. Area Code and Telephone Number 480-644-3890
C. Signature 	D. Date Signed 7/17/2018

Laboratory Sample ID: 180503007

Denali\_006479

**CITY OF MESA COMPLIANCE LABORATORY****640 NORTH MESA DRIVE MESA, ARIZONA 85211**

Environmental Laboratory License AZ0410

LABORATORY SUPERVISOR: MATTHEW REXING Ph (480)644-5403

QUALITY ASSURANCE COORDINATOR: Amy Cerwinske Ph (480)644-6901

Attn: Jennifer Hetherington

OrderID: 180503007

CollectDate: 5/2/2018

Collection Time: 9:30:00 AM

Collector: B. Innis

Sample Number: 18050277

ReceiveDate: 5/3/2018

Customer Sample#:

Project ID: NWWRP BIOSOLIDS

Site: NWWRP Biosolids

**RESULTS**

Parameter	Method No	MRL	Qualifier	Result	Analysis Date	Analyst
Nitrogen, Ammonia Total	SM 4500-NH3 C	1130	D2	8930 mg/Kg-dry	5/30/2018	PSERIA
Cyanide, Total	EPA 9014	4.5	M2	< 4.50 mg/Kg-dry	5/7/2018	PSERIA
Arsenic, Total	EPA 6010D	9.01		22.9 mg/Kg-dry	5/18/2018	ACHARLS
Cadmium, Total	EPA 6010D	3.6	D1	< 3.60 mg/Kg-dry	5/18/2018	ACHARLS
Chromium, Total	EPA 6010D	9.01		61.1 mg/Kg-dry	5/18/2018	ACHARLS
Copper, Total	EPA 6010D	9.01		513 mg/Kg-dry	5/18/2018	ACHARLS
Lead, Total	EPA 6010D	4.5	M3	8.49 mg/Kg-dry	5/18/2018	ACHARLS
Molybdenum, Total	EPA 6010D	2.25		16.1 mg/Kg-dry	5/18/2018	ACHARLS
Nickel, Total	EPA 6010D	2.25		27.8 mg/Kg-dry	5/18/2018	ACHARLS
Selenium, Total	EPA 6010D	18	D1	< 18.0 mg/Kg-dry	5/18/2018	ACHARLS
Silver, Total	EPA 6010D	4.5	D1	5.22 mg/Kg-dry	5/18/2018	ACHARLS
Zinc, Total	EPA 6010D	2.25	M3	841 mg/Kg-dry	5/18/2018	ACHARLS
Mercury, Total	EPA 7471B	0.178	M3, R1, D2	0.988 mg/Kg-dry	5/18/2018	ACHARLS
Nitrogen, Nitrate-Nitrite Total	EPA 9056	102		< 102 mg/Kg-dry	5/10/2018	KHALLA
Nitrogen, Kjeldahl Total	SM4500-Norg	980	M1	54200 mg/Kg-dry	5/21/2018	PSERIA
Nitrogen, Total	Calculation	1080		54200 mg/Kg-dry	5/29/2018	mrexing
Paint Filter	EPA 9095B			abs pres/abs	5/14/2018	KHALLA
pH	EPA 9045D	1.68		7.78 S.U.	5/14/2018	KHALLA
Phosphate as P, Total	SM4500-P	4410	D2, L4	30200 mg/Kg-dry	5/21/2018	GSMITH2
Solids, Total	SM2540G	1		22.1 %	5/4/2018	BSINGH

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**QUALIFIERS**

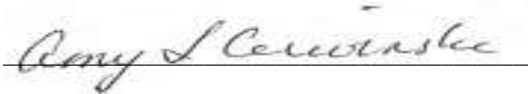
D1	Sample diluted due to matrix interference.	D2	Sample diluted due to high concentration.
M1	Matrix spk rec. high, blank spk rec. acceptable.	M2	Matrix spike rec. low, blank spk rec. acceptable.
M3	Spk rec unusable;high sample conc;blk spk in limit		

**COMMENTS**

R1 RPD/RSD exceeded the method acceptance limit due to matrix.

L4 The associated blank spike recovery was below method acceptance limits. The LFB met recovery requirements and the Sample Duplicate and LFBD met precision requirements.

REVIEWED BY:



Date Signed: 7/10/2018



# Chain of Custody

Project Manager: Jennifer Hetherington

*N.L.M.R.*

Order#	180503007	Sampled By:	<i>D. Linnis / D. Gule</i>
Customer Name:	NWWRP Compliance	Date Sampled:	<i>5-2-18 5/2/18</i>
Project Name:	NWWRP BIOSOLIDS	Time Sampled:	<i>0835 0930</i>
		Receiving Temp:	<i>2.0c</i>

Sample Number	NWWRP Biosolids	# of Bottles	Comments:
Analysis			Metals: Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc
Paint Filter	X		
Mercury - SW7471B	X		
Metals - SW6010D	X		
pH	X		
Ammonia - 4500NH3C	X		
Nitrate-N - EPA9056	X		
Nitrite-N - EPA9056	X		
TKN - 4500 N ORG C	X		
Phosphorus - 4500-P B,E	X		
% Moisture	X		
% Solids	X		
Cyanide Total - 9014	X		
Total Nitrogen	X		
		2	

Sampled&Relinquished by:		Signature: <i>William L. Gule</i> Time: <i>0500</i>		Sampled&Relinquished by:	
Printed Name: <i>Bill Gule</i>		Date: <i>5-2-18</i>		Signature: <i>W. Linnis</i> Time: <i>1220</i>	
Company Name: <i>Mesa AZ, NWWRP</i>				Printed Name: <i>W. Linnis</i> Date: <i>5/2/18</i>	
Received by:		Signature: <i>Brian Linnis</i> Time: <i>0630</i>		Received by:	
Printed Name: <i>Brian Linnis</i>		Date: <i>5/2/18</i>		Signature: <i>W. Linnis</i> Time: <i></i>	
Company Name: <i>C.O.M.</i>				Printed Name: <i>W. Linnis</i> Date: <i></i>	
Sampled&Relinquished by:		Signature: <i>Brian Linnis</i> Time: <i>1030</i>		Sampled&Relinquished by:	
Printed Name: <i>Brian Linnis</i>		Date: <i>5/2/18</i>		Signature: <i>W. Linnis</i> Time: <i></i>	
Company Name: <i>C.O.M.</i>				Printed Name: <i>W. Linnis</i> Date: <i></i>	
Received by:		Signature: <i>W. Linnis</i> Time: <i>1030</i>		Received by:	
Printed Name: <i>W. Linnis</i>		Date: <i>5/2/18</i>		Signature: <i>W. Linnis</i> Time: <i>1220</i>	
Company Name: <i>C.O.M.</i>				Printed Name: <i>W. Linnis</i> Date: <i>5/2/18</i>	